

**Notice of Allowability**

Application No.

10/820,631

Examiner

Roberto Velez

Applicant(s)

GUNN ET AL.

Art Unit

2829

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 08/16/2006.
2. ☒ The allowed claim(s) is/are 44-68.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 04/04,12/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

Roberto Velez  
Patent Examiner

**DETAILED ACTION**

***Election/Restrictions***

1. This application is in condition for allowance except for the presence of claims 1-43 and 69-84 directed to inventions non-elected without traverse. Accordingly, claims 1-43 and 69-84 have been cancelled.

***Response to Arguments***

2. Applicant's arguments, see Remarks (Page 18, Paragraph 2), filed 08/16/2006, with respect to claims 44-68 have been fully considered and are persuasive. The rejection of claims 44-68 has been withdrawn.

***Allowable Subject Matter***

3. Claims 44-68 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: the prior art of record, taken alone or in combination, fails to disclose or render obvious, a device comprising: an optical alignment structure operable to direct at least a portion of incident light along a predetermined direction above the wafer surface to optically mark a relative position of the optical grating coupler, as further defined as claim 44.

A method of remotely detecting and establishing the value of currents in circuits in an integrated semiconductor device comprising the steps of: detecting said pulsating first magnetic field with a first remote sensor to provide an output signal proportional to said first sensed current, as further defined as claim 4.

Dependent claims 45-68 are also allowed.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

***Craighead et al. (US Pat. 6,438,279)*** shows (Figures 1-32) a unitary microcapillary and waveguide structure and method of fabrication.

***Dakss et al. (US Pat. 3,864,016)*** shows (Figures 1-5) a holographic fiber to waveguide coupler.

***Nashimoto (US Pat. 5,499,732)*** shows (Figures 1-2E) a method for fabricating an optical device.

***Sakushima et al. (US Pat. 6,256,437)*** shows (Figures 1-10) an optical device and its production method.

***Koh et al. (US Pat. 5,416,861)*** shows (Figures 1-11) an optical synchronous clock distribution network and high-speed signal distribution network.

***Jewell et al. (US Pat. 5,500,540)*** shows (Figures 1-12A) a wafer scale optoelectronic package.

***Nikonov et al. (US Pat. 6,859,587)*** shows (Figures 1-3) a method and apparatus for wafer level testing of integrated optical waveguide circuits.

***Zheng et al. (US PG PUB. 2004/0081399)*** shows (Figures 1-6) an optical grating coupler.

#### **Conclusion**

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberto Velez whose telephone number is 571-


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272-8597. The examiner can normally be reached on Monday-Friday 8:00am-4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nguyen Ha can be reached on 571-272-1678. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

 Roberto Velez  
Patent Examiner

 10/28/06  
**FARESH PATEL**  
**PRIMARY EXAMINER**